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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/692,869	10/20/2000	William T. McHugh	08935-218001 / M-4926	6097	
26161	7590 02/25/2004		EXAMINER		
FISH & RICHARDSON PC			MARTIN, ANGELA J		
225 FRANKLIN ST BOSTON, MA 02110			ART UNIT	ART UNIT PAPER NUMBER	
boston, n	71 02110		1745	44-7-44-1-1-1	

DATE MAILED: 02/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				#			
Office Action Summary		Application No.	Applicant(s)				
		09/692,869	MCHUGH ET AL.				
		Examiner	Art Unit				
		Angela J. Martin	1745				
Period fe	The MAILING DATE of this communication app or Reply	pears on the cover sheet with	the correspondence address				
THE - External control	MAILING DATE OF THIS COMMUNICATION. Pensions of time may be available under the provisions of 37 CFR 1.1 of SIX (6) MONTHS from the mailing date of this communication. Per period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period of the provision	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONT, t, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>06 N</u>	ovember 2003.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-5,7-13,15,18 and 21-44 is/are pend 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-5,7-13,15,18 and 21-44 is/are reject Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)⊠	The drawing(s) filed on is/are: a) acce						
	Applicant may not request that any objection to the						
11)[Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	. •	, ,				
Priority ι	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Apprity documents have been re u (PCT Rule 17.2(a)).	olication No eceived in this National Stage				
Attachmen	t(s)						
1) 🛛 Notic	e of References Cited (PTO-892)	4) 🔀 Interview Sur					
2) 🔲 Notic 3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/	Mail Date. <u>2/5/04</u> . ormal Patent Application (PTO-152)				
S. Patent and T.	rademark Office						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 6, 2003 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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3. Claims 1-5, 7-13, 15, 18, and 21-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Hull et al., U.S. Pat. No. 6,265,104 B1.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Rejection of claims 1-5, 7-13, and 21-25, 27-44 drawn to a battery system and a battery.

Hull et al., teach a battery system (cell; abstract) comprising a casing to receive one or more batteries (col. 1, lines 50-53) and to be used with an electronic device (col. 1, lines17-25); and a battery comprising a can having a rectangular cross section (col. 6, lines 35-40), the can having a closed end and an open end, a cathode, an anode, a separator between the electrodes (col. 1, lines 57-64), and a seal assembly attached to the open end of the can, wherein the assembly comprises a seal and a current collector attached to the seal (Figs. 4, 5; col. 2, lines 23-26). It also teaches the can comprises an air access opening (col. 1, lines 41-43); the cathode comprises manganese oxide (col. 3, lines 36-43), wherein the cathode has a rectangular cross section (col. 6, lines 35-40) and the anode comprises zinc (col. 5, lines 9-11); the battery is a metal-air battery (abstract). It also teaches a conductive hot melt material between the cathode and can (col. 1, lines 62-67) and it teaches a non-conductive melt between the cathode and seal

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assembly (col. 2, lines 14-16). Additionally, it teaches a barrier layer between the cathode and can comprising polytetrafluoroethylene (col. 3, lines 44-49); wherein the cathode and can define an air plenum inbetween (col. 1, lines 36-37); wherein the can has a square cross section or a triangular cross section or a polygonal cross section (col. 6, lines 35-41). Additionally, it teaches a wall extending between the ends, the wall having an air access opening (Figs. 2a and 3); and two walls extending between the ends, the distance between the ends being greater than the distance between the walls (Figs. 2a and 3); the cathode defines a cavity and the anode is in the cavity (Fig. 2a).

Thus, the claims are anticipated.

Rejection of claims 15, 18, 26 drawn to a method of making a metal-air battery.

Hull et al., teach a method of making a metal-air battery, the method comprising placing a cathode tube in a can having a rectangular cross section (col. 6, lines 35-40) and an air access opening, placing an anode in can, placing a seal assembly in can, sealing a portion of can over the seal assembly and placing a conductive melt in the can (col. 2, lines 27-44). Additionally, it teaches placing a non-conductive melt between the cathode and seal assembly (col. 2, lines 14-16); wherein the can has a triangular cross section (col. 6, lines 35-41).

Thus, the claims are anticipated.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-

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1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AJM

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Patrick Ryzn
Supervisory Patent Examiner
Technology Center 1700